# Semi-Automated Self-Serving Healthcare System

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Computer Engineering Department, Umm Al-Qura University, Makkah, Saudi Arabia Spring 2022

# Methodology

- Collecting data about existing systems.
- Requirements analyze and documents what the project needs.
- Design draw the SW/HW architecture & create diagrams.
- Implementation writing code & troubleshooting SW/HW problems.
- Verification test is everthing in the SW & HW side is works how it's designed to.
- improvement how to make the system more reliable and user friendly.

- Web page to show
- Dashboard to show data charts & statistics.

### Conclusion

SASS is the next level in health care management systems since, this project cost less than human based systems, collect visitors data, make statistics and easy to add it to the system.











# **Results/Findings**

real-time bio-metrics.













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Through our personal experiences, we have noticed that most health authorities to this day still use the system based on human energy to manage hospitals. Although the system is old, but it still satisfies the purpose, but with the new vision of the Kingdom 2030, it has become necessary to keep pace with the requirements of the times to manage hospitals using the latest technologies, dispense with human staff as much as possible, and direct their abilities to positions of greater benefit.

# Introduction

From our personal experience we know most of the time it's not a seamless experience that starts from entering hospital and waiting for your turn to p bill and to see a doctor. But the worst part is, people started getting used to and say: "Well, it's always been like thi right?". Yes, but it doesn't have to be.



Supervisor

### Objective

W	<ul> <li>Reduce paperwork.</li> </ul>
	<ul> <li>Data set to make better plans.</li> </ul>
	<ul> <li>Take advantage of 5G.</li> </ul>
he	<ul> <li>depend on technology &amp; smart</li> </ul>
bay	systems.
	<ul> <li>using IoT &amp; automated systems to</li> </ul>
) it	enhance the performance.
is,	<ul> <li>better systems means happy visito</li> </ul>